

No.	Co-authors	Article title	Keywords	Vol., No., pp.	DOI	Citation
1	Bruno, R., Bevilacqua, P., Ferraro, V., Arcuri, N.	Second law analysis for the optimization of plate heat exchangers	Design Optimization, Entropy Generation Minimization Model, Plate Heat Exchanger, Parametric Study	6, 4, 475-482	10.18280/mmep.060401	Bruno, R., Bevilacqua, P., Ferraro, V., Arcuri, N. (2019). Second law analysis for the optimization of plate heat exchangers. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 475-482. https://doi.org/10.18280/mmep.060401
2	Mollah, M.T., Islam, M.M., Khatun, S., Alam, M.M.	MHD generalized couette flow and heat transfer on Bingham fluid through porous parallel plates	MHD Flow, Bingham Fluid, Generalized Couette Flow, Heat Transfer, Finite Difference Method (FDM)	6, 4, 483-490	10.18280/mmep.060402	Mollah, M.T., Islam, M.M., Khatun, S., Alam, M.M. (2019). MHD generalized couette flow and heat transfer on Bingham fluid through porous parallel plates. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 483-490. https://doi.org/10.18280/mmep.060402
3	Kumar, P.V., Ibrahim, S.M., Jyothsna, K.	Numerical modeling on radiative dissipative MHD flow of a chemically casson fluid over an exponentially inclined stretching surface	Casson Nanofluid, Inclined Stretching Sheet, Thermal Radiation, Viscous Dissipation, HAM	6, 4, 491-501	10.18280/mmep.060403	Kumar, P.V., Ibrahim, S.M., Jyothsna, K. (2019). Numerical modeling on radiative dissipative MHD flow of a chemically casson fluid over an exponentially inclined stretching surface. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 491-501. https://doi.org/10.18280/mmep.060403
4	Mabood, F., Usman, H.	Multiple slips effects on MHD thermo-solutal flow in porous media saturated by nanofluid	HAM, Heat Transfer, Mass Transfer, MHD, Multiple Slip, Nanofluid, Porous Media	6, 4, 502-510	10.18280/mmep.060404	Mabood, F., Usman, H. (2019). Multiple slips effects on MHD thermo-solutal flow in porous media saturated by nanofluid. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 502-510. https://doi.org/10.18280/mmep.060404
5	Kurra, S.S., Naralasetty, V.	Decentralized key management scheme using alternating multilinear forms for cloud data sharing with dynamic multiprivileged groups	Decentralized Group Key Management-Membership Driven, Alternating Multilinear Forms, CAMDH, Cloud Data, Dynamic Multiprivileged Groups	6, 4, 511-518	10.18280/mmep.060405	Kurra, S.S., Naralasetty, V. (2019). Decentralized key management scheme using alternating multilinear forms for cloud data sharing with dynamic multiprivileged groups. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 511-518. https://doi.org/10.18280/mmep.060405
6	Adibi, T., Adibi, O.	Laminar forced convection simulation at different boundary conditions with averaging scheme (numerical and theoretical research)	Cavity Flow, Forced Convection, Reynolds Number, Complex Boundary Condition, Nusselt Number	6, 4, 519-526	10.18280/mmep.060406	Adibi, T., Adibi, O. (2019). Laminar forced convection simulation at different boundary conditions with averaging scheme (numerical and theoretical research). <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 519-526. https://doi.org/10.18280/mmep.060406
7	Gajjela, N., Garvantha, M., Matta, A.	Effect of mass transfer in a horizontal pipe with suction and chemical reaction on magnetic Newtonian flow	Mass Transfer, Suction, Magnetic Field, Chemical Reaction, Newtonian Fluid, HAM	6, 4, 527-534	10.18280/mmep.060407	Gajjela, N., Garvantha, M., Matta, A. (2019). Effect of mass transfer in a horizontal pipe with suction and chemical reaction on magnetic Newtonian flow. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 527-534. https://doi.org/10.18280/mmep.060407
8	Kunamneni, R., Ramavathu, S.N.	A grid connected modular multilevel converter for photovoltaic energy conversion	Modular Multilevel Converter, Photo Voltaic, Total Harmonic Distortion	6, 4, 535-540	10.18280/mmep.060408	Kunamneni, R., Ramavathu, S.N. (2019). A grid connected modular multilevel converter for photovoltaic energy conversion. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 535-540. https://doi.org/10.18280/mmep.060408
9	Qadiri, U., Wani, M.M.	Performance combustion and emission characteristics of 3-Cylinder SI engine fuelled conventional gasoline, ethanol blends, and micro-emulsion used as an alternative fuel	Performance, Bio Fuel, Emissions, AVL Boost, Micro-Emulsions	6, 4, 541-549	10.18280/mmep.060409	Qadiri, U., Wani, M.M. (2019). Performance combustion and emission characteristics of 3-Cylinder SI engine fuelled conventional gasoline, ethanol blends, and micro-emulsion used as an alternative fuel. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 541-549. https://doi.org/10.18280/mmep.060409
10	Alam, M.F., Bora, M.K., Sharma, B., Barman, R.N.	Numerical investigation of magneto-hydrodynamics mixed convection in a square cavity for various shaped conducting obstacles placed at the center	Magneto-Hydrodynamics, Mixed Convection, Nanofluid, Heat Transfer, Cavity	6, 4, 550-556	10.18280/mmep.060410	Alam, M.F., Bora, M.K., Sharma, B., Barman, R.N. (2019). Numerical investigation of magneto-hydrodynamics mixed convection in a square cavity for various shaped conducting obstacles placed at the center. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 550-556. https://doi.org/10.18280/mmep.060410
11	Yadav, R.R., Roy, J.	Solute transport phenomena with input through a plane surface in porous media.	Advection, Dispersion, Porous Medium, Groundwater Velocity, Laplace Transformation Technique	6, 4, 557-565	10.18280/mmep.060411	Yadav, R.R., Roy, J. (2019). Solute transport phenomena with input through a plane surface in porous media. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 557-565. https://doi.org/10.18280/mmep.060411
12	Mihoubi, H., Bouderah, B., Tayebi, T.	Improvement of free convection heat transfer in a concentric cylindrical annulus heat exchanger using nanofluid	Nanofluids, Natural Convection, Horizontal Concentric Cylinders, Finite Volume Method	6, 4, 566-574	10.18280/mmep.060412	Mihoubi, H., Bouderah, B., Tayebi, T. (2019). Improvement of free convection heat transfer in a concentric cylindrical annulus heat exchanger using nanofluid. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 566-574. https://doi.org/10.18280/mmep.060412
13	Boubezza, A., Kholai, O., Teggat, M.	Numerical investigation of nanofluids mixed convection in a vertical channel	Mixed Convection, Nanofluid, Vertical Channel, Volume Fraction	6, 4, 575-580	10.18280/mmep.060413	Boubezza, A., Kholai, O., Teggat, M. (2019). Numerical investigation of nanofluids mixed convection in a vertical channel. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 575-580. https://doi.org/10.18280/mmep.060413
14	Sivanandam, S., Marimuthu, B., Arumugam, M., Bhoose, G.	Stratification, slip and cross diffusion impacts on time depending convective stream with chemical reaction	Unsteady Flow, MHD, Chemical Reaction, Soret/Dufour Effect, Stratification	6, 4, 581-588	10.18280/mmep.060414	Sivanandam, S., Marimuthu, B., Arumugam, M., Bhoose, G. (2019). Stratification, slip and cross diffusion impacts on time depending convective stream with chemical reaction. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 581-588. https://doi.org/10.18280/mmep.060414
15	Tarrad, A.H., Khudor, D.S.	Thermal performance prediction for air flow in a wavy corrugated duct at steady-state constant heat flux mode and early stages of turbulent flow conditions	Enhancement, Heat Transfer, Wavy Surfaces, Correlation, Constant Heat Flux	6, 4, 589-598	10.18280/mmep.060415	Tarrad, A.H., Khudor, D.S. (2019). Thermal performance prediction for air flow in a wavy corrugated duct at steady-state constant heat flux mode and early stages of turbulent flow conditions. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 589-598. https://doi.org/10.18280/mmep.060415
16	Abdulkadhim, A.	On simulation of the natural convection heat transfer between circular cylinder and an elliptical enclosure filled with nanofluid [part I: The effect of MHD and internal heat generation/absorption]	MHD, Heat Generation/Absorption, Nanofluid, Elliptical Enclosure, Natural Convection	6, 4, 599-610	10.18280/mmep.060416	Abdulkadhim, A. (2019). On simulation of the natural convection heat transfer between circular cylinder and an elliptical enclosure filled with nanofluid [part I: The effect of MHD and internal heat generation/absorption]. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 599-610. https://doi.org/10.18280/mmep.060416
17	Seeni, A.	Aerodynamic performance characterization and static structural analysis of slotted propeller: Part A effect of position	Slotted Propeller, Computational Fluid Dynamics, Static Structural, Low Reynolds Number, APC Slow Flyer, ANSYS Fluent, ANSYS Mechanical	6, 4, 611-624	10.18280/mmep.060417	Seeni, A. (2019). Aerodynamic performance characterization and static structural analysis of slotted propeller: Part A effect of position. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 611-624. https://doi.org/10.18280/mmep.060417
18	Mondal, R.K., Reza-E-Rabbi, S., Gharami, P.P., Ahmed, S.F., Arifuzzaman, S.M.	A simulation of Casson fluid flow with variable viscosity and thermal conductivity effects	Casson Fluid, Chemical Reaction, Porous Medium, Explicit Finite Difference Method, MHD	6, 4, 625-633	10.18280/mmep.060418	Mondal, R.K., Reza-E-Rabbi, S., Gharami, P.P., Ahmed, S.F., Arifuzzaman, S.M. (2019). A simulation of Casson fluid flow with variable viscosity and thermal conductivity effects. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 625-633. https://doi.org/10.18280/mmep.060418
19	Madan, R., Saha, K., Bhowmick, S.	Limit elastic analysis of E-FGM rotating disk with temperature dependent mechanical properties	Limit Elastic Speed, FG Rotating Disk, Modified Rule of Mixture, Effective Yield Stress Variation	6, 4, 634-640	10.18280/mmep.060419	Madan, R., Saha, K., Bhowmick, S. (2019). Limit elastic analysis of E-FGM rotating disk with temperature dependent mechanical properties. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 634-640. https://doi.org/10.18280/mmep.060419
20	Machavarapu, S., Rao, M.V.G., Rao, P.V.R.	Machine learning algorithm based static VAR compensator to enhance voltage stability of multi-machine power system	Voltage Stability, SVC FACTS Controller, Susceptance Model, Firing Angle Model, BPNN Algorithm, ELM Algorithm	6, 4, 641-649	10.18280/mmep.060420	Machavarapu, S., Rao, M.V.G., Rao, P.V.R. (2019). Machine learning algorithm based static VAR compensator to enhance voltage stability of multi-machine power system. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 4, pp. 641-649. https://doi.org/10.18280/mmep.060420
21	Giuliano, A., De Bari, L., Motola, V., Pierro, N., Giocoli, A., Barletta, D.	Techno-environmental assessment of two bio-refinery systems to valorize the residual lignocellulosic biomass of the Basilicata region	Bio-refineries, Biofuels, CO2 Savings, Biomass Availability	6, 3, 317-323	10.18280/mmep.060301	Giuliano, A., De Bari, L., Motola, V., Pierro, N., Giocoli, A., Barletta, D. (2019). Techno-environmental assessment of two bio-refinery systems to valorize the residual lignocellulosic biomass of the Basilicata region. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 317-323. https://doi.org/10.18280/mmep.060301
22	Cravero, C., De Domenico, D., Leutcha, P.J., Marsano, D.	Strategies for the numerical modelling of regenerative pre-heating systems for recycled glass raw material	Glass Industry, Heat Recovery, CFD, Numerical Optimization	6, 3, 324-332	10.18280/mmep.060302	Cravero, C., De Domenico, D., Leutcha, P.J., Marsano, D. (2019). Strategies for the numerical modelling of regenerative pre-heating systems for recycled glass raw material. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 324-332. https://doi.org/10.18280/mmep.060302
23	Ferraro, M., Farulla, G.A., Tumminia, G., Guarino, F., Aloisio, D., Brunaccini, G., Giusa, F., Sergi, F., Colino, A.E., Cellura, M., Antonucci, V.	Experimental and computational fluid dynamic study of an active ventilated façade integrating battery and distributed MPPT	BIPV, Battery, Ventilated Façade, CFD	6, 3, 333-342	10.18280/mmep.060303	Ferraro, M., Farulla, G.A., Tumminia, G., Guarino, F., Aloisio, D., Brunaccini, G., Giusa, F., Sergi, F., Colino, A.E., Cellura, M., Antonucci, V. (2019). Experimental and computational fluid dynamic study of an active ventilated façade integrating battery and distributed MPPT. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 333-342. https://doi.org/10.18280/mmep.060303

24	Nayakar, R., Mahabaleswar, U.S., Vinaykumar, P.N., Lorenzini, G., Baleanu, D.	Nonlinear stretching/shrinking cooling of a sheet involving an MHD Walters' liquid B with suction	Non-Linear Stretching/Shrinking Sheet, Walters' Liquid B, Analytical Solution, Magnetic Field, Fourth Order Non-Linear Differential Equation	6, 3, 343-348	10.18280/mmep.060304	Nayakar, R., Mahabaleswar U.S., Vinaykumar, P.N., Lorenzini, G., Baleanu, D. (2019). Nonlinear stretching/shrinking cooling of a sheet involving an MHD Walters' liquid B with suction. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 343-348. https://doi.org/10.18280/mmep.060304
25	Nagaraju, K.R., Mahabaleswar, U.S., Krimpeni, A.A., Sarris, I.E., Lorenzini, G.	Impact of mass transpiration on unsteady boundary layer flow of impulsive porous stretching	Darcy Number, ADM, Mass Suction/Injection, Padé Approximants	6, 3, 349-354	10.18280/mmep.060305	Nagaraju, K.R., Mahabaleswar, U.S., Krimpeni, A.A., Sarris, I.E., Lorenzini, G. (2019). Impact of mass transpiration on unsteady boundary layer flow of impulsive porous stretching. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 349-354. https://doi.org/10.18280/mmep.060305
26	Alhumoud, J.M., Almashan, N.	Muskingum method with variable parameter estimation	Muskingum Models, Linear, Nonlinear, Trial and Error Method, Least Square Method, Direct Optimization Method	6, 3, 355-362	10.18280/mmep.060306	Alhumoud, J.M., Almashan, N. (2019). Muskingum method with variable parameter estimation. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 355-362. https://doi.org/10.18280/mmep.060306
27	Xiong, C.P., Sun, H., Pan, D., Li, Y.	A personalized collaborative filtering recommendation algorithm based on linear regression	Tag, Linear Regression, Collaborative Filtering, Recommender System (RS)	6, 3, 363-368	10.18280/mmep.060307	Xiong, C.P., Sun, H., Pan, D., Li, Y. (2019). A personalized collaborative filtering recommendation algorithm based on linear regression. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 363-368. https://doi.org/10.18280/mmep.060307
28	Kumegowda, T., Mahanath, B., Lorenzini, G., Animsasan, L.L.	Significance of induced magnetic field and exponential space dependent heat source on quadratic convective flow of cation fluid in a micro-channel via HPM	Casson Fluid, Exponential Heat Source, Microchannel, Nonlinear Convection, Nonlinear Boussinesq Approximation	6, 3, 369-384	10.18280/mmep.060308	Kumegowda, T., Mahanath, B., Lorenzini, G., Animsasan, L.L. (2019). Significance of induced magnetic field and exponential space dependent heat source on quadratic convective flow of cation fluid in a micro-channel via HPM. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 369-384. https://doi.org/10.18280/mmep.060308
29	Bendjama, I., Allaoui, T., Menni, Y., Chamkha, A.J., Lorenzini, G.	Study and comparison between two receivers of parabolic trough collector	Parabolic Trough, Modeling, Solar Thermal, Liquid Water, MATLAB/Simulink	6, 3, 385-389	10.18280/mmep.060309	Bendjama, I., Allaoui, T., Menni, Y., Chamkha, A.J., Lorenzini, G. (2019). Study and comparison between two receivers of parabolic trough collector. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 385-389. https://doi.org/10.18280/mmep.060309
30	An, Q.Q.	A novel recommendation algorithm considering average similarity and user-based collaborative filtering	Average Similarity (AS), User-Based Collaborative Filtering (USF), Recommendation Algorithm, Scoring Matrix	6, 3, 390-396	10.18280/mmep.060310	An, Q.Q. (2019). A novel recommendation algorithm considering average similarity and user-based collaborative filtering. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 390-396. https://doi.org/10.18280/mmep.060310
31	Hasan, M.S., Mondal, R.N., Lorenzini, G.	Centrifugal instability with convective heat transfer through a tightly coiled square duct	Curved Square Duct, Secondary Flow, Steady Solution, Unsteady Solution, Heat Transfer	6, 3, 397-408	10.18280/mmep.060311	Hasan, M.S., Mondal, R.N., Lorenzini, G. (2019). Centrifugal instability with convective heat transfer through a tightly coiled square duct. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 397-408. https://doi.org/10.18280/mmep.060311
32	Sun, S.S., Lei, G., Sun, Z.P.	Dynamic and static load tests on a large-span rigid-frame bridge	Dynamic and Static Load (DSL) Tests, Bearing Capacity, Working Performance, Rigid-Frame Bridge, Stress State, Dynamic Properties	6, 3, 409-414	10.18280/mmep.060312	Sun, S.S., Lei, G., Sun, Z.P. (2019). Dynamic and static load tests on a large-span rigid-frame bridge. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 409-414. https://doi.org/10.18280/mmep.060312
33	Menni, Y., Chamkha, A.J., Lorenzini, G., Kaid, N., Ameer, H., Bensafi, M.	Advances of nanofluids in solar collectors - A review of numerical studies	Nanofluid, Base Fluid, Heat Transfer, Fluid Flow, Solar Collector, Numerical Simulation	6, 3, 415-427	10.18280/mmep.060313	Menni, Y., Chamkha, A.J., Lorenzini, G., Kaid, N., Ameer, H., Bensafi, M. (2019). Advances of nanofluids in solar collectors - A review of numerical studies. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 415-427. https://doi.org/10.18280/mmep.060313
34	Fasogbon, S.K., Oyelami, F.H., Adetimirin, E.O., Ige, E.O.	On blasius plate solution of particle dispersion and deposition in human respiratory track	Combust Fuel, Environmental Pollution, Bio-Fuel Combust, Combust Fossil Aerosol, Blasius Solution	6, 3, 428-432	10.18280/mmep.060314	Fasogbon, S.K., Oyelami, F.H., Adetimirin, E.O., Ige, E.O. (2019). On blasius plate solution of particle dispersion and deposition in human respiratory track. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 428-432. https://doi.org/10.18280/mmep.060314
35	Qin, Y.P., Zheng, C.F.	A backpropagation neural network-based flexural-tensile strength prediction model for asphalt mixture in cold regions under cyclic thermal stress	Cold Regions, Asphalt Mixture, Flexural-Tensile Strength, Backpropagation Neural Network (BPNN), Regression Analysis	6, 3, 433-436	10.18280/mmep.060315	Qin, Y.P., Zheng, C.F. (2019). A backpropagation neural network-based flexural-tensile strength prediction model for asphalt mixture in cold regions under cyclic thermal stress. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 433-436. https://doi.org/10.18280/mmep.060315
36	Qin, Y.P., Zheng, C.F.	Analysis of aspect ratio effects of left heated 2D cavity using energy streamlines and field synergy principle	Rayleigh Number, Aspect Ratio, Energy Streamlines, Field Synergy, Nusselt Number	6, 3, 437-448	10.18280/mmep.060316	Qin, Y.P., Zheng, C.F. (2019). Analysis of aspect ratio effects of left heated 2D cavity using energy streamlines and field synergy principle. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 437-448. https://doi.org/10.18280/mmep.060316
37	Camaraza-Molina, Y., García-Lovella, Y., Sánchez-Escalona, A.A., Torres-Sarmiento, E., Cruz-Fonticella, O.M., García-Morales, O.F.	Suggested method for heat transfer calculation during film condensation inside pipes with movable frontiers	Flow Condensation, Heat Transfer Coefficient, Mathematical Deduction, Movable Frontiers	6, 3, 449-454	10.18280/mmep.060317	Camaraza-Molina, Y., García-Lovella, Y., Sánchez-Escalona, A.A., Torres-Sarmiento, E., Cruz-Fonticella, O.M., García-Morales, O.F. (2019). Suggested method for heat transfer calculation during film condensation inside pipes with movable frontiers. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 449-454. https://doi.org/10.18280/mmep.060317
38	Leonidovich, P.E.	On development of analytical approach for analysis of energy transfer of traveling wave tube	Traveling Wave Tube, Analysis of Operating Regimes, Analysis of Energy Transfer, Increasing of Efficiency, Analytical Approach for Analysis	6, 3, 455-459	10.18280/mmep.060318	Leonidovich, P.E. (2019). On development of analytical approach for analysis of energy transfer of traveling wave tube. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 455-459. https://doi.org/10.18280/mmep.060318
39	Roshid, M., Bashir, H.	Breather wave and kinky periodic wave solutions of one-dimensional osolkov equation	Kinky Periodic Wave, Breather Wave, The Osolkov Equation, Simple Equation Method	6, 3, 460-466	10.18280/mmep.060319	Roshid, M., Bashir, H. (2019). Breather wave and kinky periodic wave solutions of one-dimensional osolkov equation. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 460-466. https://doi.org/10.18280/mmep.060319
40	Oyelami, A.T., Olusunle, S.O.O.	Spherical storage tank development through mathematical modeling of constituent sections	Modeling, Pressurized Sections, Sphere and Stresses	6, 3, 467-473	10.18280/mmep.060320	Oyelami, A.T., Olusunle, S.O.O. (2019). Spherical storage tank development through mathematical modeling of constituent sections. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 3, pp. 467-473. https://doi.org/10.18280/mmep.060320
41	Abderrahim A., Ghellai N., Bouzid Z., Menni Y.	Wind energy resource assessment in south western of Algeria	Wind Energy, Wind Resource, Assessment Wind Potential, Weibull Parameters, The Southwest Of Algeria	6, 2, 157-162	10.18280/mmep.060201	Abderrahim A., Ghellai N., Bouzid Z., Menni Y. (2019). Wind energy resource assessment in south western of Algeria. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 157-162. https://doi.org/10.18280/mmep.060201
42	Alhumoud J.M.	Non-equilibrium natural convection flow through a porous medium	Natural Convection, Non-Equilibrium Model, Porous Layer, Porous Medium	6, 2, 163-169	10.18280/mmep.060202	Alhumoud, J.M. (2019). Non-equilibrium natural convection flow through a porous medium. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 163-169. https://doi.org/10.18280/mmep.060202
43	Y. Menni, A.J. Chamkha, G. Lorenzini, B. Benyoucef	Computational fluid dynamics based numerical simulation of thermal and thermo-hydraulic performance of a solar air heater channel having various ribs on absorber plates	Nusselt Number, Skin Friction Coefficient, Thermal Enhancement Factor, Ribs, Obstacles, CFD	6, 2, 170-174	10.18280/mmep.060203	Menni, Y., Chamkha, A.J., Lorenzini, G., Benyoucef, B. (2019). Computational fluid dynamics based numerical simulation of thermal and thermo-hydraulic performance of a solar air heater channel having various ribs on absorber plates. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 170-174. https://doi.org/10.18280/mmep.060203
44	Mallikarjun P., Murthy R.V., Mahabaleswar U.S., Lorenzini G.	Numerical study of mixed convective flow of a couple stress fluid in a vertical channel with first order chemical reaction and heat generation/absorption	Mixed Convection, Couple Stress Fluid, Chemical Reaction, Vertical Channel, Numerical Method	6, 2, 175-182	10.18280/mmep.060204	Mallikarjun, P., Murthy, R.V., Mahabaleswar, U.S., Lorenzini, G. (2019). Numerical study of mixed convective flow of a couple stress fluid in a vertical channel with first order chemical reaction and heat generation/absorption. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 175-182. https://doi.org/10.18280/mmep.060204
45	Radhi D., Mohsen A.M.H., Abdulkadhim A.	Experimental investigation of two-phase fluid flow over a rectangular obstructions located inside enlarged rectangular channel	Two-Phase Flow, Rectangular Obstructions, Flow Rate	6, 2, 183-187	10.18280/mmep.060205	Radhi, D., Mohsen, A.M.H., Abdulkadhim, A. (2019). Experimental investigation of two-phase fluid flow over a rectangular obstructions located inside enlarged rectangular channel. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 183-187. https://doi.org/10.18280/mmep.060205
46	Ayano, M.S., Otegbeye, O., Motsa, S.S.	MHD mixed convection chemically reactive cation fluid flow over an inclined stretching/shrinking sheet: paired quasilinearization approach (PQLM)	Heat Transfer, Mass Transfer, Hydromagnetic Flow, Secondary Flow, Numerical Solution, Hall Effect, Chemical Reaction, Soret And Dufour	6, 2, 188-196	10.18280/mmep.060206	Ayano, M.S., Otegbeye, O., Motsa, S.S. (2019). MHD mixed convection chemically reactive cation fluid flow over an inclined stretching/shrinking sheet: Paired quasilinearization approach (PQLM). <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 188-196. https://doi.org/10.18280/mmep.060206

47	Sánchez-Escalona A.A., Góngora-Leyva E., Camaraza-Medina Y.	Monoethanolamine heat exchangers modeling using the buckingham pi theorem	Amine Treatment, CO ₂ Capture, Dimensional Analysis, Heat Transfer, Industrial Applications, Performance, Prediction	6, 2, 197-202	10.18280/mmep.060207	Sánchez-Escalona, A.A., Góngora-Leyva, E., Camaraza-Medina, Y. (2019). Monoethanolamine heat exchangers modeling using the buckingham Pi theorem. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 197-202. https://doi.org/10.18280/mmep.060207
48	Katuri R., Gorantla S.	Design and simulation of a controller for a hybrid energy storage system based electric vehicle	Bidirectional Converter (BDC), Unidirectional Converter (UDC), Battery, Ultracapacitor (UC), MFB Controller, Proportional Integral (PI) Controller, Proportional Integral Derivative (PID) Controller, Fuzzy Logic Controller, ANN Controller	6, 2, 203-216	10.18280/mmep.060208	Katuri, R., Gorantla, S. (2019). Design and simulation of a controller for a hybrid energy storage system based electric vehicle. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 203-216. https://doi.org/10.18280/mmep.060208
49	Driss A., Maalej S., Chouat I., Zaghdoudi M.C.	Experimental investigation on the thermal performance of a heat pipe-based cooling system	Capillary Pumping, Electronics Cooling, Heat Pipes, Grooves	6, 2, 217-228	10.18280/mmep.060209	Driss, A., Maalej, S., Chouat, I., Zaghdoudi, M.C. (2019). Experimental investigation on the thermal performance of a heat pipe-based cooling system. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 217-228. https://doi.org/10.18280/mmep.060209
50	Cui L.M., Liao Y.L.	A predictor-preview controller for discrete-time systems with input delay and external interference	Discrete-Time System, Input Delay, Predictor-Preview Control, External Interference	6, 2, 229-234	10.18280/mmep.060210	Cui, L.M., Liao, Y.L. (2019). A predictor-preview controller for discrete-time systems with input delay and external interference. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 229-234. https://doi.org/10.18280/mmep.060210
51	Radid A., Rhoif K.	Partitioning differential transformation for solving integro-differential equations problem and application to electrical circuits	Multi-Stages Differential Transformation Method (MsDTM), Taylor'S Series, Power Series, Integro-Differential Equations, Electrical Circuit Modelling	6, 2, 235-240	10.18280/mmep.060211	Radid, A., Rhoif, K. (2019). Partitioning differential transformation for solving integro-differential equations problem and application to electrical circuits. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 235-240. https://doi.org/10.18280/mmep.060211
52	Choudhury K., Ahmed N.	Unsteady MHD mass transfer flow past a temporarily accelerated semi-infinite vertical plate in presence of thermal diffusion with ramped wall temperature	Heat Transfer, Ramped Temperature, Thermal Diffusion, Thermal Radiation	6, 2, 241-248	10.18280/mmep.060212	Choudhury, K., Ahmed, N. (2019). Unsteady MHD mass transfer flow past a temporarily accelerated semi-infinite vertical plate in presence of thermal diffusion with ramped wall temperature. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 241-248. https://doi.org/10.18280/mmep.060212
53	Ali A.A., Hegaze M.M., Elrodedy A.S.	In-flight correction of the satellite orientation parameter during target mode	Orientation Parameters, Pointing Accuracy, Satellite Attitude and Orbit Control, Time-Optimal Nonlinear Feedback Control	6, 2, 249-262	10.18280/mmep.060213	Ali, A.A., Hegaze, M.M., Elrodedy, A.S. (2019). In-flight correction of the satellite orientation parameter during target mode. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 249-262. https://doi.org/10.18280/mmep.060213
54	Alayi R., Nenati R., Shamel A., Kasaeian A., Sarkaleh M.K., Ahmadi M.H.	Energetic and exergetic analysis hybrid solid oxide fuel cell systems and gas turbine (SOFC-GT)	Modeling Energetic, Exergetic, SOFC, Gas Turbine	6, 2, 263-270	10.18280/mmep.060214	Alayi, R., Nenati, R., Shamel, A., Kasaeian, A., Sarkaleh, M.K., Ahmadi, M.H. (2019). Energetic and exergetic analysis hybrid solid oxide fuel cell systems and gas turbine (SOFC-GT). <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 263-270. https://doi.org/10.18280/mmep.060214
55	Pengpom N., Vongpradubchai S., Rattanadecho P.	Numerical analysis of pollutant concentration dispersion and convective flow in a two-dimensional confluent river model	Pollutant Concentration Dispersion, Confluent River, Convective Heat Transfer	6, 2, 271-279	10.18280/mmep.060215	Pengpom, N., Vongpradubchai, S., Rattanadecho, P. (2019). Numerical analysis of pollutant concentration dispersion and convective flow in a two-dimensional confluent river model. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 271-279. https://doi.org/10.18280/mmep.060215
56	Srivastava M., Sinha M.K.	Mathematical modelling for the performance of encapsulated phase change tess and effect of stefan's number	Conduction, Encapsulation, HBI Method, Interface Movement, Melting-Solidification Nonlinear Behavior, Phase Change Materials, Stefan'S Number	6, 2, 280-284	10.18280/mmep.060216	Srivastava, M., Sinha, M.K. (2019). Mathematical modelling for the performance of encapsulated phase change tess and effect of Stefan's number. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 280-284. https://doi.org/10.18280/mmep.060216
57	Nabila C.K., Azzedine S.	Numerical study of surface roughness effects on the behavior of fluid flow in micro-channels	CFD, Friction Factor, Laminar Flow, Rough Surface, Smooth Surface	6, 2, 285-292	10.18280/mmep.060217	Nabila, C.K., Azzedine, S. (2019). Numerical study of surface roughness effects on the behavior of fluid flow in micro-channels. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 285-292. https://doi.org/10.18280/mmep.060217
58	Swain K., Parida S.K., Dash G.C.	Higher order chemical reaction on MHD nanofluid flow with slip boundary conditions: a numerical approach	Nanofluid, Non-Linear Thermal Radiation, Chemical Reaction, Porous Medium	6, 2, 293-299	10.18280/mmep.060218	Swain, K., Parida, S.K., Dash, G.C. (2019). Higher order chemical reaction on MHD nanofluid flow with slip boundary conditions: A numerical approach. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 293-299. https://doi.org/10.18280/mmep.060218
59	Srinivasacharya D., Jagadeeshwar P.	Flow over an exponentially stretching sheet with double dispersion and convective thermal condition	Double Dispersion, Porous Medium, Convective Thermal Condition, Heat and Mass Transfer	6, 2, 300-308	10.18280/mmep.060219	Srinivasacharya, D., Jagadeeshwar, P. (2019). Flow over an exponentially stretching sheet with double dispersion and convective thermal condition. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 300-306. https://doi.org/10.18280/mmep.060219
60	Benchabane A., Charif F.	Gradient based neural network with fourier transform for AR spectral estimator	Gradient-Based Neural Networks, Toeplitz Systems, Fast Fourier Transform, Auto Regressive Model	6, 2, 309-315	10.18280/mmep.060220	Benchabane, A., Charif, F. (2019). Gradient based neural network with fourier transform for AR spectral estimator. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 2, pp. 309-315. https://doi.org/10.18280/mmep.060220
61	Rosa J.S., Lorenzini G., Altafini C.R., Wander P.R., Telli G.D., Rocha L.A.O.	Performance effects and economic viability of high-hydrated ethanol fumigation and diesel direct injection in a small compression ignition engine	Internal Combustion Engine, Fumigation, Economic Viability, Ethanol, Diesel Oil	6, 1, 1-9	10.18280/mmep.060101	Rosa, J.S., Lorenzini, G., Altafini, C.R., Wander, P.R., Telli, G.D., Rocha, L.A.O. (2019). Performance effects and economic viability of high-hydrated ethanol fumigation and diesel direct injection in a small compression ignition engine. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 1, pp. 1-9. https://doi.org/10.18280/mmep.060101
62	Izadi M., Mehryan S.A.M., Chamkha A.J., Lorenzini G.	The impacts of heat generation/absorption and partial slip on boundary layer flow and heat transfer of a nanofluid comprising of self-impelled motile microorganisms passing a stretching sheet	Nanofluid, Stretching Sheet, Motile Gyrotactic Microorganisms, Heat Generation/Absorption, Partial Slip	6, 1, 10-20	10.18280/mmep.060102	Izadi, M., Mehryan, S.A.M., Chamkha, A.J., Lorenzini, G. (2019). The impacts of heat generation/absorption and partial slip on boundary layer flow and heat transfer of a nanofluid comprising of self-impelled motile microorganisms passing a stretching sheet. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 1, pp. 10-20. https://doi.org/10.18280/mmep.060102
63	Menni Y., Chamkha A.J., Zidani C., Benyoucef B.	Heat and nanofluid transfer in baffled channels of different outlet models	Nanofluid, Forced Convection, Turbulent Flow, Fluid Mechanics, Baffle, Channel	6, 1, 21-28	10.18280/mmep.060103	Menni, Y., Chamkha, A.J., Zidani, C., Benyoucef, B. (2019). Heat and nanofluid transfer in baffled channels of different outlet models. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 1, pp. 21-28. https://doi.org/10.18280/mmep.060103
64	Somashekhara S.C.H., Setty A.K.Y., Sridharthurthy S.M., Adiga P., Mahabaleswar U.S., Lorenzini G.	Makespan reduction using dynamic job sequencing combined with buffer optimization applying genetic algorithm in a manufacturing system	Conveyor System, Diverging Conveyor, Dynamic Sequencing, Job Sequencing, Work Optimization	6, 1, 29-37	10.18280/mmep.060104	Somashekhara, S.C.H., Setty, A.K.Y., Sridharthurthy, S.M., Adiga, P., Mahabaleswar, U.S., Lorenzini, G. (2019). Makespan reduction using dynamic job sequencing combined with buffer optimization applying genetic algorithm in a manufacturing system. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 1, pp. 29-37. https://doi.org/10.18280/mmep.060104
65	Subba Rao M.V., Gangadhar K., Lorenzini G.	A computational analysis for boundary layer flow of magneto hydrodynamic tangent hyperbolic fluid of heat and mass transfer past a stretching cylinder with suction/injection using spectral relaxation method	Stretching Sheet, Tangent Hyperbolic Fluid, Suction/Injection, SRM	6, 1, 38-46	10.18280/mmep.060105	Subba Rao, M.V., Gangadhar, K., Lorenzini, G. (2019). A computational analysis for boundary layer flow of magneto hydrodynamic tangent hyperbolic fluid of heat and mass transfer past a stretching cylinder with suction/injection using spectral relaxation method. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 1, pp. 38-46. https://doi.org/10.18280/mmep.060105
66	Mostafaei A., Mirzaei M., Gharvini M., Ahmadi M.H., Lorenzini G.	Investigation of energy saving in building by using phase-change materials (PCM)	Phase Change Materials, Energy Storage, Energy Plus, Energy Consumption	6, 1, 47-51	10.18280/mmep.060106	Mostafaei, A., Mirzaei, M., Gharvini, M., Ahmadi, M.H., Lorenzini, G. (2019). Investigation of energy saving in building by using phase-change materials (PCM). <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 1, pp. 47-51. https://doi.org/10.18280/mmep.060106
67	Menni Y., Chamkha A.J., Zidani C., Benyoucef B.	Numerical analysis of heat and nanofluid mass transfer in a channel with detached and attached baffle plates	Design, Optimization, Flow Control, Nanofluid Fluid, Computational Nanofluid Dynamics	6, 1, 52-60	10.18280/mmep.060107	Menni, Y., Chamkha, A.J., Zidani, C., Benyoucef, B. (2019). Numerical analysis of heat and nanofluid mass transfer in a channel with detached and attached baffle plates. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 1, pp. 52-60. https://doi.org/10.18280/mmep.060107
68	Kadri M., Sahli A., Sahli S.	Analysis of cylindrical shells by the Least Squares Method	Container, Cylindrical Shells, Enrichment, Linear Behavior, Weighted Residual Method	6, 1, 61-68	10.18280/mmep.060108	Kadri, M., Sahli, A., Sahli, S. (2019). Analysis of cylindrical shells by the Least Squares Method. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 1, pp. 61-68. https://doi.org/10.18280/mmep.060108
69	Qadri U., Marouf Wani M.	Experimental investigation on multi-cylinder SI engine fueled conventional gasoline, ethanol blends, and micro-emulsion as an alternative fuel	Performance, Emissions, Bio Fuels, Micro-Emissions, 3-Cylinder	6, 1, 69-76	10.18280/mmep.060109	Qadri, U., Marouf Wani, M. (2019). Experimental investigation on multi-cylinder SI engine fueled conventional gasoline, ethanol blends, and micro-emulsion as an alternative fuel. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 1, pp. 69-76. https://doi.org/10.18280/mmep.060109

70	Menni Y., Chamkha A.J., Azzi A., Zidani C., Benyoucef B.	Study of air flow around flat and arc-shaped baffles in shell-and-tube heat exchangers	Shell-and-Tube Heat Exchangers, Turbulence, Heat Transfer, Friction, Reynolds Number	6, 1, 77-84	10.18280/mmep.060110	Menni, Y., Chamkha, A.J., Azzi, A., Zidani, C., Benyoucef, B. (2019). Study of air flow around flat and arc-shaped baffles in shell-and-tube heat exchangers. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 1, pp. 77-84. https://doi.org/10.18280/mmep.060110
71	Bikku T.	An indigenous tool (NoJavaCloud) to handle virtual nodes to simulate the cloud tasks	CloudSim, Cloud Computing, Data Management, NoJavaCloud	6, 1, 85-91	10.18280/mmep.060111	Bikku, T. (2019). An indigenous tool (NoJavaCloud) to handle virtual nodes to simulate the cloud tasks. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 1, pp. 85-91. https://doi.org/10.18280/mmep.060111
72	Chabane F., Benshal D., Brima A., Mounimi N.	Solar drying of drying agricultural product (Apricot)	Drying Room, Solar Air Collector, Moisture Content, Mass Flow Rate, Apricot, Temperature	6, 1, 92-98	10.18280/mmep.060112	Chabane, F., Benshal, D., Brima, A., Mounimi, N. (2019). Solar drying of drying agricultural product (Apricot). <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 1, pp. 92-98. https://doi.org/10.18280/mmep.060112
73	Mehdaoui Y., Malaoui A., Gaga A., Alami R.E., Mrabi M.	The efficiency of the CORDIC Operator in the MIMO MC-CDMA receiver	MIMO MC-CDMA, CORDIC, DFT, Fixed Point, Processing Time	6, 1, 90-104	10.18280/mmep.060113	Mehdaoui, Y., Malaoui, A., Gaga, A., Alami, R.E., Mrabi, M. (2019). The efficiency of the CORDIC Operator in the MIMO MC-CDMA receiver. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 1, pp. 90-104. https://doi.org/10.18280/mmep.060113
74	Dutta S., Biswas A.K.	A numerical investigation of natural convection heat transfer of copper-water nanofluids in a rectangular enclosure heated uniformly from the bottom wall	Natural Convection, Nanofluids, Rectangular Enclosure	6, 1, 105-114	10.18280/mmep.060114	Dutta, S., Biswas, A.K. (2019). A numerical investigation of natural convection heat transfer of copper-water nanofluids in a rectangular enclosure heated uniformly from the bottom wall. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 1, pp. 105-114. https://doi.org/10.18280/mmep.060114
75	Zhang Z.Z., Wang P.	Research on the first passage of double-layer micro-plate in the piezoelectric model	MEMS, First Passage, Strain Gradient Theory, Stochastic Average Method	6, 1, 115-120	10.18280/mmep.060115	Zhang, Z.Z., Wang, P. (2019). Research on the first passage of double-layer micro-plate in the piezoelectric model. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 1, pp. 115-120. https://doi.org/10.18280/mmep.060115
76	Khatun M.R., Ali Biswas M.H.	Mathematical modeling applied to renewable fishery management	Mathematical Model, Prey-Predator Model, Renewable Resource, Stability, Nonlinear Differential Equation	6, 1, 121-128	10.18280/mmep.060116	Khatun, M.R., Ali Biswas, M.H. (2019). Mathematical modeling applied to renewable fishery management. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 1, pp. 121-128. https://doi.org/10.18280/mmep.060116
77	Beaumont F., Bogard F., Murer S., Polidori G., Madaci F., Tair R.	How does aerodynamics influence physiological responses in middle-distance running drafting?	VO2, Energy Cost, CFD, Drag Area, Air Resistance	6, 1, 129-135	10.18280/mmep.060117	Beaumont, F., Bogard, F., Murer, S., Polidori, G., Madaci, F., Tair, R. (2019). How does aerodynamics influence physiological responses in middle-distance running drafting. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 1, pp. 129-135. https://doi.org/10.18280/mmep.060117
78	Zhou Y.C., Meng P.C.	Diagnosis of causes for high railway traffic based on Bayesian network	Rail Traffic, High Traffic, Bayesian Network, Fuzzy Set	6, 1, 136-140	10.18280/mmep.060118	Zhou, Y.C., Meng, P.C. (2019). Diagnosis of causes for high railway traffic based on Bayesian network. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 1, pp. 136-140. https://doi.org/10.18280/mmep.060118
79	Abourabia A.M., Abdel Moneim S.A.	Analytical solution of sea water steady magneto-hydrodynamic equations subjected to stretching sheet under induced magnetic field and heat transfer	Bejan Number, Entropy Generation, Heat Transfer, Homogeneous Balance Method, Incompressible MHD Equations, Seawater Data, Stretched Sheets	6, 1, 141-151	10.18280/mmep.060119	Abourabia, A.M., Abdel Moneim, S.A. (2019). Analytical solution of sea water steady magneto-hydrodynamic equations subjected to stretching sheet under induced magnetic field and heat transfer. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 1, pp. 141-151. https://doi.org/10.18280/mmep.060119
80	Eparu C., Neacsu S., Neacsu A., Prundurel A.	The comparative thermodynamic analysis of compressor's energetic performance	Compressor, Energy, Gas, Performance, Thermodynamic	6, 1, 152-155	10.18280/mmep.060120	Eparu, C., Neacsu, S., Neacsu, A., Prundurel, A. (2019). The comparative thermodynamic analysis of compressor's energetic performance. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 6, No. 1, pp. 152-155. https://doi.org/10.18280/mmep.060120
81	Ramezanizadeh M., Nazari M.A., Ahmadi M.H., Lorenzini G., Kumar R., Jilte R.	A review on the solar applications of thermosyphons	Thermosyphon, Nanofluids, Solar Energy Systems, Heat Transfer, Solar Desalination.	5, 4, 275-280	10.18280/mmep.050401	Ramezanizadeh, M., Nazari, M.A., Ahmadi, M.H., Lorenzini, G., Kumar, R., Jilte, R. (2018). A review on the solar applications of thermosyphons. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 4, pp. 275-280. https://doi.org/10.18280/mmep.050401
82	Ahmadi M.H., Ramezanizadeh M., Nazari M.A., Lorenzini G., Kumar R., Jilte R.	Applications of nanofluids in geothermal: A review	Nanofluid, Geothermal, Heat Transfer, Renewable Energy.	5, 4, 281-285	10.18280/mmep.050402	Ahmadi, M.H., Ramezanizadeh, M., Nazari, M.A., Lorenzini, G., Kumar, R., Jilte, R. (2018). Applications of nanofluids in geothermal: A review. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 4, pp. 281-285. https://doi.org/10.18280/mmep.050402
83	Vand A.Z., Mirzaei M., Ahmadi M.H., Lorenzini G., Kumar R., Jilte R.	Technical and economical optimization of CHP systems by using gas turbine and energy recovery system	Technical and Economic Optimizati, Simultaneous Production System, Gas Turbine, Energy Recycling System.	5, 4, 286-292	10.18280/mmep.050403	Vand, A.Z., Mirzaei, M., Ahmadi, M.H., Lorenzini, G., Kumar, R., Jilte, R. (2018). Technical and economical optimization of CHP systems by using gas turbine and energy recovery system. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 4, pp. 286-292. https://doi.org/10.18280/mmep.050403
84	Raju C.S.K., Sandeep N., Lorenzini G., Ahmadi M.H.	Chemically reacting Carreau fluid in a suspension of convective conditions over three geometries with Cattaneo-Christov heat flux model	MHD, Carreau Fluid, Cattaneo-Christov Heat Flux Model, Brownian Motion and Thermophoresis Effects, Chemical Reaction, Biot Number, Cone, Wedge/Plate.	5, 4, 293-302	10.18280/mmep.050404	Raju, C.S.K., Sandeep, N., Lorenzini, G., Ahmadi, M.H. (2018). Chemically reacting Carreau fluid in a suspension of convective conditions over three geometries with Cattaneo-Christov heat flux model. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 4, pp. 293-302. https://doi.org/10.18280/mmep.050404
85	Trancossi M., Cannistraro M., Pascoa J.	Can constructal law and exergy analysis produce a robust design method that couples with industry 4.0 paradigms? The case of a container house	Constructal, Design, Industry 4.0, Digital Twin, Thermodynamic, Evolution, Lifecycle, Container House, Configuration, Optimization.	5, 4, 303-312	10.18280/mmep.050405	Trancossi, M., Cannistraro, M., Pascoa, J. (2018). Can constructal law and exergy analysis produce a robust design method that couples with industry 4.0 paradigms? The case of a container house. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 4, pp. 303-312. https://doi.org/10.18280/mmep.050405
86	Julianelli A., Huang Y., Basile A.	A thin supported Pd-Au based membrane for hydrogen generation and purification: A case study	Pd and Pd-Au/Al ₂ O ₃ Membranes, Hydrogen Separation, H ₂ /N ₂ Selectivity, Methane Steam Reforming.	5, 4, 313-316	10.18280/mmep.050406	Julianelli, A., Huang, Y., Basile, A. (2018). A thin supported Pd-Au based membrane for hydrogen generation and purification: A case study. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 4, pp. 313-316. https://doi.org/10.18280/mmep.050406
87	Marino C., Nucara A., Pietrafesa M.	Evaluation of the direct and diffused component of solar radiation starting from global radiation measurements: Preliminary analysis	Solar Radiation, Direct-diffuse and Reflected Component, Six-directional Technique.	5, 4, 317-322	10.18280/mmep.050407	Marino, C., Nucara, A., Pietrafesa, M. (2018). Evaluation of the direct and diffused component of solar radiation starting from global radiation measurements: Preliminary analysis. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 4, pp. 317-322. https://doi.org/10.18280/mmep.050407
88	Fedele R., Praticò F.G., Carotenuto R., Della Corte F.G.	Energy savings in transportation: Setting up an innovative SHM method	Energy Savings, Management Process Improvement, P-F Curves, Road Pavement, Structural Health Monitoring.	5, 4, 323-330	10.18280/mmep.050408	Fedele, R., Praticò, F.G., Carotenuto, R., Della Corte, F.G. (2018). Energy savings in transportation: Setting up an innovative SHM method. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 4, pp. 323-330. https://doi.org/10.18280/mmep.050408
89	Trancossi M., Pascoa J.	A new dimensionless approach to general fluid dynamics problems that accounts both the first and the second law of thermodynamics	Fluid Dynamics, Conservation Laws, Bejan Number, Bejan Energy, Entropy Generation, Hagen Number.	5, 4, 331-340	10.18280/mmep.050409	Trancossi, M., Pascoa, J. (2018). A new dimensionless approach to general fluid dynamics problems that accounts both the first and the second law of thermodynamics. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 4, pp. 331-340. https://doi.org/10.18280/mmep.050409
90	Blaise K.K., Magloire K.E.P., Prosper G.	Thermal performance amelioration of flat plate solar collector of an indirect dryer	Flat Plate Collector, Baffles, Thermal Efficiency, Temperatures.	5, 4, 341-347	10.18280/mmep.050410	Blaise, K.K., Magloire, K.E.P., Prosper, G. (2018). Thermal performance amelioration of flat plate solar collector of an indirect dryer. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 4, pp. 341-347. https://doi.org/10.18280/mmep.050410
91	Sánchez-Escalona A.A., Góngora-Leyva E.	Artificial neural network modeling of hydrogen sulphide gas coolers ensuring extrapolation capability	Artificial Neural Network, Extrapolation, Heat Exchanger, Hydrogen Sulphide, Modeling.	5, 4, 348-356	10.18280/mmep.050411	Sánchez-Escalona, A.A., Góngora-Leyva, E. (2018). Artificial neural network modeling of hydrogen sulphide gas coolers ensuring extrapolation capability. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 4, pp. 348-356. https://doi.org/10.18280/mmep.050411
92	Garg R., Thakur H., Tripathi B.	Numerical simulation of two-dimensional fluid flow problem using truly meshfree method	Steady-state Analysis, Transient Analysis, Incompressible Fluid Flow, Direct Method of Interpolation, Penalty Function Method, Meshless Local Petrov-Galerkin Method.	5, 4, 357-364	10.18280/mmep.050412	Garg, R., Thakur, H., Tripathi, B. (2018). Numerical simulation of two-dimensional fluid flow problem using truly meshfree method. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 4, pp. 357-364. https://doi.org/10.18280/mmep.050412

93	Camaraza-Medina Y., Rubio-Gonzales Á.M., Cruz-Fonticella O.M., García-Morales O.F., Vizcón-Toledo R., Quiza-Sardifias R.	Simplified analysis of heat transfer through a finned tube bundle in air cooled condenser-second assessment	Airflow, Heat Transfer Coefficient, Fins Tube Bank.	5, 4, 365-372	10.18280/mmep.050413	Camaraza-Medina, Y., Rubio-Gonzales, Á.M., Cruz-Fonticella, O.M., García-Morales, O.F., Vizcón-Toledo, R., Quiza-Sardifias, R. (2018). Simplified analysis of heat transfer through a finned tube bundle in air cooled condenser-second assessment. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 4, pp. 365-372. https://doi.org/10.18280/mmep.050413
94	Kumar H.N.S., Choudhary R.P., Murthy Ch.S.N.	Reliability-based preventive maintainability analysis of shovel-dumper system in surface coal mine using ANN and isograph reliability workbench	Shovel-dumper System, Surface coal Mine, Reliability, Availability, Maintainability, K-S Test and ANN.	5, 4, 373-378	10.18280/mmep.050414	Kumar, H.N.S., Choudhary, R.P., Murthy, Ch.S.N. (2018). Reliability-based preventive maintainability analysis of shovel-dumper system in surface coal mine using ANN and isograph reliability workbench. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 4, pp. 373-378. https://doi.org/10.18280/mmep.050414
95	Bouras A., Taloub D., Djeddar M., Driss Z.	Natural convective heat transfer from a heated horizontal elliptical cylinder to its coaxial square enclosure	Natural Convection, Thermal Rayleigh Number, Boussinesq Approximation, Elliptic-square.	5, 4, 379-385	10.18280/mmep.050415	Bouras, A., Taloub, D., Djeddar, M., Driss, Z. (2018). Natural convective heat transfer from a heated horizontal elliptical cylinder to its coaxial square enclosure. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 4, pp. 379-385. https://doi.org/10.18280/mmep.050415
96	Katuri R., Gorantla S.	Analysis of math function based controller for a smooth transition between battery and ultracapacitor	Electric Vehicles (EVs), Battery, Ultracapacitor (UC), Bidirectional Converter, Unidirectional Converter, Math Function Based (MFB) Controller, Proportional-Integral-Derivative (PID) Controller.	5, 4, 386-394	10.18280/mmep.050416	Katuri, R., Gorantla, S. (2018). Analysis of math function based controller for a smooth transition between battery and ultracapacitor. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 4, pp. 386-394. https://doi.org/10.18280/mmep.050416
97	Abdulkadhim A., Abed A.M., Mohsen A.M., Al-Farhany K.	Effect of partially thermally active wall on natural convection in porous enclosure	Porous Media, Natural Convection, Partially Heated, Conjugate.	5, 4, 395-406	10.18280/mmep.050417	Abdulkadhim, A., Abed, A.M., Mohsen, A.M., Al-Farhany, K. (2018). Effect of partially thermally active wall on natural convection in porous enclosure. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 4, pp. 395-406. https://doi.org/10.18280/mmep.050417
98	Mostefa B., Kaddour R., Mimoun Y., Abdallah N.	Plackett-burman desing to study the influence of the stiffness of hydrodynamic bearings on the dynamic behaviour of turbo machinery	Stiffness, DOE, Hydrodynamic Bearings, Dynamic Behaviour, Turbomachinery.	5, 4, 407-417	10.18280/mmep.050418	Mostefa, B., Kaddour, R., Mimoun, Y., Abdallah, N. (2018). Plackett-burman desing to study the influence of the stiffness of hydrodynamic bearings on the dynamic behaviour of turbo machinery. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 4, pp. 407-417. https://doi.org/10.18280/mmep.050418
99	Garai D., Agrawal H., Mishra A.K., Kumar S.	Influence of initiation system on blast-induced ground vibration using random forest algorithm, artificial neural network, and scaled distance analysis	ANN, Random Forest, Blast Induced Ground Vibration, Peak Particle Velocity, Prediction, analysis	5, 4, 418-426	10.18280/mmep.050419	Garai, D., Agrawal, H., Mishra, A.K., Kumar, S. (2018). Influence of initiation system on blast-induced ground vibration using random forest algorithm, artificial neural network, and scaled distance analysis. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 4, pp. 418-426. https://doi.org/10.18280/mmep.050419
100	Karmaker S., Ruhu F.Y., Mallick U.K.	Mathematical analysis of a model on guava for biological pest control	Mathematical Model, Prey-predator, Guava Boers, Parasitoids, Natural Treatment.	5, 4, 427-440	10.18280/mmep.050420	Karmaker, S., Ruhu, F.Y., Mallick, U.K. (2018). Mathematical analysis of a model on guava for biological pest control. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 4, pp. 427-440. https://doi.org/10.18280/mmep.050420
101	Cucumo M., Ferraro V., Kalikatsos D., Mele M.	A simple correlation for the dynamic simulation of a solar thermal plant connected to a radiant floor	Simple Correlation, Dynamic Simulation, Solar Plant, Radiant Floor.	5, 3, 131-138	10.18280/mmep.050301	Cucumo, M., Ferraro, V., Kalikatsos, D., Mele, M. (2018). A simple correlation for the dynamic simulation of a solar thermal plant connected to a radiant floor. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 131-138. https://doi.org/10.18280/mmep.050301
102	Gulotta T.M., Guarino F., Mistretta M., Cellura M., Lorenzini G.	Introducing exergy analysis in life cycle assessment: A case study	Exergy Analysis, Life Cycle Assessment (LCA), Cumulative Exergy Demand (CED), Technology Obsolescence, Biomass Boiler.	5, 3, 139-145	10.18280/mmep.050302	Gulotta, T.M., Guarino, F., Mistretta, M., Cellura, M., Lorenzini, G. (2018). Introducing exergy analysis in life cycle assessment: A case study. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 139-145. https://doi.org/10.18280/mmep.050302
103	Balocco C., Petrone G.	Heat and moisture transfer investigation of surface building materials	Moisture Buffer, Adsorption/Desorption, Porous Material, CFD, Transient Simulation.	5, 3, 146-152	10.18280/mmep.050303	Balocco, C., Petrone, G. (2018). Heat and moisture transfer investigation of surface building materials. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 146-152. https://doi.org/10.18280/mmep.050303
104	Genco A., Viggiano A., Magi V.	How to enhance the energy efficiency of HVAC systems	HVAC, Energy Efficiency, Dynamic Simulation.	5, 3, 153-160	10.18280/mmep.050304	Genco, A., Viggiano, A., Magi, V. (2018). How to enhance the energy efficiency of HVAC systems. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 153-160. https://doi.org/10.18280/mmep.050304
105	Marchitto A., Misale M.	Experiments on parallel connected loops in single phase natural circulation: preliminary results	Single-Phase Natural Circulation Loop, Parallel Circuits, Different Heat Sink Temperature.	5, 3, 161-167	10.18280/mmep.050305	Marchitto, A., Misale, M. (2018). Experiments on parallel connected loops in single phase natural circulation: preliminary results. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 161-167. https://doi.org/10.18280/mmep.050305
106	Distefano D.L., Gagliano A., Naboni E., Sapienza V., Timpanaro N.	Thermophysical characterization of a cardboard emergency kit-house	Architecture, Emergency, Cardboard, Reversibility, Repeatability.	5, 3, 168-174	10.18280/mmep.050306	Distefano, D.L., Gagliano, A., Naboni, E., Sapienza, V., Timpanaro, N. (2018). Thermophysical characterization of a cardboard emergency kit-house. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 168-174. https://doi.org/10.18280/mmep.050306
107	Nocera F., Gagliano A., Detommaso M.	Energy performance of cross-laminated timber panel (X-Lam) buildings: A case study	Dynamic Energy Analysis, X-lam, nZEB, Cross Laminated Timber Panel.	5, 3, 175-182	10.18280/mmep.050307	Nocera, F., Gagliano, A., Detommaso, M. (2018). Energy performance of cross-laminated timber panel (X-Lam) buildings: A case study. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 175-182. https://doi.org/10.18280/mmep.050307
108	Cardinale T., Sposato C., A. Feo P., Fazio D.	Clay and fibers: Energy efficiency in buildings between tradition and innovation	Adobe Bricks, Biobased Materials, Mechanical Strength, Natural Fibers, Thermal Conductivity.	5, 3, 183-189	10.18280/mmep.050308	Cardinale, T., Sposato, C., A. Feo, P., Fazio, D. (2018). Clay and fibers: Energy efficiency in buildings between tradition and innovation. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 183-189. https://doi.org/10.18280/mmep.050308
109	Tirmizi S.T., Tirmizi S.R.U.H.	GIS based risk assessment of oil spill and gas leakage vulnerable zones in Pakistan	Risk Assessment, GIS, Spatial Analysis, Oil and Gas Industry, Pakistan.	5, 3, 190-196	10.18280/mmep.050309	Tirmizi, S.T., Tirmizi, S.R.U.H. (2018). GIS based risk assessment of oil spill and gas leakage vulnerable zones in Pakistan. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 190-196. https://doi.org/10.18280/mmep.050309
110	Bergero S., Cavalletti P., Chiari A.	The importance of thermal bridge correction in energy refurbishment of existing buildings	Thermal Bridges, Mean Thermal Transmittance, Mean Global Heat Transmission Coefficient, Aerogel Insulating Material, Energy Refurbishment of Buildings, 2-D Numerical Simulation.	5, 3, 197-204	10.18280/mmep.050310	Bergero, S., Cavalletti, P., Chiari, A. (2018). The importance of thermal bridge correction in energy refurbishment of existing buildings. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 197-204. https://doi.org/10.18280/mmep.050310
111	Cannistraro M., Mainardi E., Bottarelli M.	Testing a dual-source heat pump	Dual-Source Heat Pump, Horizontal Ground Heat Exchangers, Flat-Panel.	5, 3, 205-210	10.18280/mmep.050311	Cannistraro, M., Mainardi, E., Bottarelli, M. (2018). Testing a dual-source heat pump. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 205-210. https://doi.org/10.18280/mmep.050311
112	Evola G., Marletta L., Cimino D.	Weather data morphing to improve building energy modeling in an urban context	Dynamic Simulations, Cooling Load, Heating Load, Urban Areas, Weather Data.	5, 3, 211-216	10.18280/mmep.050312	Evola, G., Marletta, L., Cimino, D. (2018). Weather data morphing to improve building energy modeling in an urban context. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 211-216. https://doi.org/10.18280/mmep.050312
113	Caldera M., Ungaro P., Cammarata G., Puglisi G.	Survey-based analysis of the electrical energy demand in Italian households	Electrical Energy Demand, Ecodesign, Residential Sector, Statistical Model.	5, 3, 217-224	10.18280/mmep.050313	Caldera, M., Ungaro, P., Cammarata, G., Puglisi, G. (2018). Survey-based analysis of the electrical energy demand in Italian households. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 217-224. https://doi.org/10.18280/mmep.050313
114	Srikanth B., Kumar H., Rao K.U.M.	A robust approach for WSN localization for underground coal mine monitoring using improved RSSI technique	WSN, Coal Mine Monitoring, Localization, Localization Error, Signal Strength.	5, 3, 225-231	10.18280/mmep.050314	Srikanth, B., Kumar, H., Rao, K.U.M. (2018). A robust approach for WSN localization for underground coal mine monitoring using improved RSSI technique. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 225-231. https://doi.org/10.18280/mmep.050314
115	Hamdi M., Belhorma H.A., Benchatti A., Souici M., Boutassouna B.	The relaxation effect on residual stress value in butt-welded X70 steel	Welding, Residual Stresses, Relaxation, Steel X70, Siny 2 Method.	5, 3, 232-236	10.18280/mmep.050315	Hamdi, M., Belhorma, H.A., Benchatti, A., Souici, M., Boutassouna, B. (2018). The relaxation effect on residual stress value in butt-welded X70 steel. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 232-236. https://doi.org/10.18280/mmep.050315

116	Camaraza-Medina Y., Rubio-Gonzales Á.M., Cruz-Fonticciella O.M., García-Morales O.F.	Simplified analysis of heat transfer through a finned tube bundle in air cooled condenser	Airflow, Heat Transfer Coefficient, Fins Tube Bank.	5, 3, 237-242	10.18280/mmep.050316	Camaraza-Medina, Y., Rubio-Gonzales, Á.M., Cruz-Fonticciella, O.M., García-Morales, O.F. (2018). Simplified analysis of heat transfer through a finned tube bundle in air cooled condenser. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 237-242. https://doi.org/10.18280/mmep.050316
117	Amiri E.O.	Application of computational experiments based on the response surface methodology for studying of the recirculation zone in the Y-shaped channel	CFD, Computational Experiments, Recirculation Length, Y-shape.	5, 3, 243-248	10.18280/mmep.050317	Amiri, E.O. (2018). Application of computational experiments based on the response surface methodology for studying of the recirculation zone in the Y-shaped channel. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 243-248. https://doi.org/10.18280/mmep.050317
118	Tripathy D.P., Harish Y.N.	Prevention of illegal transportation using ANPR and biometric fingerprint in mining industry	Automatic Number Plate Recognition, Mining, Finger Print, Microcontroller, Gabor Filter.	5, 3, 249-255	10.18280/mmep.050318	Tripathy, D.P., Harish, Y.N. (2018). Prevention of illegal transportation using ANPR and biometric fingerprint in mining industry. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 249-255. https://doi.org/10.18280/mmep.050318
119	Karthik G., Jayanthu S.	Selection of suitable location and method for installation of TDR in opencast mine-an experimental approach	Time Domain Reflectometry (TDR), Hangwall, Footwall, Joint Survey.	5, 3, 256-259	10.18280/mmep.050319	Karthik, G., Jayanthu, S. (2018). Selection of suitable location and method for installation of TDR in opencast mine-an experimental approach. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 256-259. https://doi.org/10.18280/mmep.050319
120	Jha B.K., Yusuf T.S.	Transient pressure driven flow in an annulus partially filled with porous material: Azimuthal pressure gradient	Annulus, Circumferential Pressure Gradient, Porous Material, Riemann-Stieltjes Approximation, Azimuthal Pressure Gradient.	5, 3, 260-267	10.18280/mmep.050320	Jha, B.K., Yusuf, T.S. (2018). Transient pressure driven flow in an annulus partially filled with porous material: Azimuthal pressure gradient. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 260-267. https://doi.org/10.18280/mmep.050320
121	Magrini A., Lazzari S., Marengo L., Guazzi G.	Cost optimal analysis of energy refurbishment actions depending on the local climate and its variations	Building Energy Performance, Building Refurbishment, Cost Optimal Methodology.	5, 3, 268-274	10.18280/mmep.050321	Magrini, A., Lazzari, S., Marengo, L., Guazzi, G. (2018). Cost optimal analysis of energy refurbishment actions depending on the local climate and its variations. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 3, pp. 268-274. https://doi.org/10.18280/mmep.050321
122	Youssef A.M.	Operations of electric vehicle traction system	Electric Vehicle, Four Quadrant Operation, BLDC Motor, Drive System, Rechargeable Energy Storage System, Regenerative Braking.	5, 2, 51-57	10.18280/mmep.050201	Youssef, A.M. (2018). Operations of electric vehicle traction system. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 2, pp. 51-57. https://doi.org/10.18280/mmep.050201
123	Ike C.C.	Energy formulation for flexural-torsional buckling of thin-walled column with open cross-section	Flexural-torsional Buckling, Thin-walled Columns with Open Cross-sections, Energy Formulation, Euler-lagrange Differential Equation.	5, 2, 58-66	10.18280/mmep.050202	Ike, C.C. (2018). Energy formulation for flexural-torsional buckling of thin-walled column with open cross-section. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 2, pp. 58-66. https://doi.org/10.18280/mmep.050202
124	Halber A., Chakravarty D.	Wireless relay placement optimization in underground room and pillar mines	Graph Theory, Mining Engineering, Combinatorial Optimization, Wireless Infrastructure, WSNs.	5, 2, 67-75	10.18280/mmep.050203	Halber, A., Chakravarty, D. (2018). Wireless relay placement optimization in underground room and pillar mines. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 2, pp. 67-75. https://doi.org/10.18280/mmep.050203
125	Camaraza-Medina Y., Khandy N.H., Carlson K.M., Cruz-Fonticciella O.M., García-Morales O.F., Reyes-Cabrera D.	Evaluation of condensation heat transfer in air-cooled condenser by dominant flow criteria	Flow Criteria, Condensation, Deviation, Heat Transfer.	5, 2, 76-82	10.18280/mmep.050204	Camaraza-Medina, Y., Khandy, N.H., Carlson, K.M., Cruz-Fonticciella, O.M., García-Morales, O.F., Reyes-Cabrera, D. (2018). Evaluation of condensation heat transfer in air-cooled condenser by dominant flow criteria. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 2, pp. 76-82. https://doi.org/10.18280/mmep.050204
126	Ike C.C.	Flexural analysis of rectangular kirchhoff plate on winkler foundation using galerkin-vaslov variational method	Galerkin-Vlasov Variational Method, Kirchhoff Plate, Winkler Foundation.	5, 2, 83-92	10.18280/mmep.050205	Ike, C.C. (2018). Flexural analysis of rectangular kirchhoff plate on winkler foundation using galerkin-vaslov variational method. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 2, pp. 83-92. https://doi.org/10.18280/mmep.050205
127	Halber A., Chakravarty D.	Investigation of wireless tracking performance in the tunnel-like environment with particle filter	Indoor Localization, Particle Filter, Monte Carlo Localization, Wireless Positioning, Underground Tracking.	5, 2, 93-101	10.18280/mmep.050206	Halber, A., Chakravarty, D. (2018). Investigation of wireless tracking performance in the tunnel-like environment with particle filter. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 2, pp. 93-101. https://doi.org/10.18280/mmep.050206
128	Yu H.	Numerical simulation of European option payoff based on stochastic differential delay equations	Stochastic Differential Delay Equations, European Option Payoff, Euler-Maruyama Method, Monte Carlo Method.	5, 2, 102-107	10.18280/mmep.050207	Yu, H. (2018). Numerical simulation of European option payoff based on stochastic differential delay equations. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 2, pp. 102-107. https://doi.org/10.18280/mmep.050207
129	Avchar A., Choudhary B.S., Budi G., Sawaiker U.G.	Effect of rock properties on rippability of laterite in Iron Ore mines of Goa	Rippability, Ripper Performance, Laterite, Rock Properties.	5, 2, 108-115	10.18280/mmep.050208	Avchar, A., Choudhary, B.S., Budi, G., Sawaiker, U.G. (2018). Effect of rock properties on rippability of laterite in Iron Ore mines of Goa. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 2, pp. 108-115. https://doi.org/10.18280/mmep.050208
130	Bala R.J., Govinda R.M., Murthy C.S.N.	Reliability analysis and failure rate evaluation of load haul dump machines using Weibull distribution analysis	Weibull Distribution, Maintenance, Reliability, Failure Rate, LHD.	5, 2, 116-122	10.18280/mmep.050209	Bala, R.J., Govinda, R.M., Murthy, C.S.N. (2018). Reliability analysis and failure rate evaluation of load haul dump machines using Weibull distribution analysis. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 2, pp. 116-122. https://doi.org/10.18280/mmep.050209
131	Vasanthakumari R., Poudy P.	Mixed convection of silver and titanium dioxide nanofluids along inclined stretching sheet in presence of MHD with heat generation and suction effect	Nanofluids, Inclined Stretching Sheet, HAM, MHD.	5, 2, 123-129	10.18280/mmep.050210	Vasanthakumari, R., Poudy, P. (2018). Mixed convection of silver and titanium dioxide nanofluids along inclined stretching sheet in presence of MHD with heat generation and suction effect. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 2, pp. 123-129. https://doi.org/10.18280/mmep.050210
132	Nwoji C.U., Onah H.N., Mama B.O., Ike C.C.	Ritz variational method for bending of rectangular kirchhoff plate under transverse hydrostatic load distribution	Ritz Variational Method, Kirchhoff Plate, Hydrostatic Load Distribution.	5, 1, 1-10	10.18280/mmep.050101	Nwoji, C.U., Onah, H.N., Mama, B.O., Ike, C.C. (2018). Ritz variational method for bending of rectangular kirchhoff plate under transverse hydrostatic load distribution. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 1, pp. 1-10. https://doi.org/10.18280/mmep.050101
133	Elbeltagy A.E.H.M., Youssef A.M., Bayoumy A.M., Elhalwagy Y.Z.	Fixed ground-target tracking control of satellites using a nonlinear model predictive control	C/GMRES Method, Ground-target Tracking, Image Quality, Optimization, Predictive Control.	5, 1, 11-20	10.18280/mmep.050102	Elbeltagy, A.E.H.M., Youssef, A.M., Bayoumy, A.M., Elhalwagy, Y.Z. (2018). Fixed ground-target tracking control of satellites using a nonlinear model predictive control. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 1, pp. 11-20. https://doi.org/10.18280/mmep.050102
134	Wang X.R., Ren G.L., Zhang J.X.	Numerical simulation and optimization analysis of thermal balance of heavy oil box-type substation louver arrangement	Box-type Substation, Louver Arrangement, Optimization Analysis, Thermal Equilibrium Analysis.	5, 1, 21-26	10.18280/mmep.050103	Wang, X.R., Ren, G.L., Zhang, J.X. (2018). Numerical simulation and optimization analysis of thermal balance of heavy oil box-type substation louver arrangement. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 1, pp. 21-26. https://doi.org/10.18280/mmep.050103
135	Dzimunya N., Radhe K., William C.M.	Design and dimensioning of sublevel stoping for extraction of thin ore (< 12 m) at very deep level: a case study of konkola copper mines (kcm), Zambia	Slope, Instability of Slope, Numerical Modelling, Empirical Analysis and Productivity.	5, 1, 27-32	10.18280/mmep.050104	Dzimunya, N., Radhe, K., William, C.M. (2018). Design and dimensioning of sublevel stoping for extraction of thin ore (< 12 m) at very deep level: a case study of konkola copper mines (kcm), Zambia. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 1, pp. 27-32. https://doi.org/10.18280/mmep.050104
136	Ike C.C.	Exponential fourier integral transform method for stress analysis of boundary load on soil	Exponential Fourier Transform Method, Compatibility Equation, Differential Equation of Equilibrium, Elastic Half Plane Problem.	5, 1, 33-39	10.18280/mmep.050105	Ike, C.C. (2018). Exponential fourier integral transform method for stress analysis of boundary load on soil. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 1, pp. 33-39. https://doi.org/10.18280/mmep.050105
137	Kezza M., Tabet I., Chieul M., Nafir N., Khentout A.	Analytical investigation of heat transfer of solar air collector by Adomian decomposition method	Solar Air Collector, Thermal Efficiency, Analytic Solution, Decomposition Method Adomian.	5, 1, 40-45	10.18280/mmep.050106	Kezza, M., Tabet, I., Chieul, M., Nafir, N., Khentout, A. (2018). Analytical investigation of heat transfer of solar air collector by Adomian decomposition method. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 1, pp. 40-45. https://doi.org/10.18280/mmep.050106
138	Song S.L.	Application of gray prediction and linear programming model in economic management	Gray Prediction, Linear Programming Model, Technical Progress, Investment Benefit.	5, 1, 46-50	10.18280/mmep.050107	Song, S.L. (2018). Application of gray prediction and linear programming model in economic management. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 5, No. 1, pp. 46-50. https://doi.org/10.18280/mmep.050107

139	Tirmizi S.T., Tirmizi S.R.U.H.	Hierarchical linear modelling of risk assessment of petroleum installations	Hierarchical Linear Modelling, Oil and Gas Industry, Risk Assessment.	4, 4, 139-144	10.18280/mmep.040401	Tirmizi S.T., Tirmizi S.R.U.H. (2017). Hierarchical linear modelling of risk assessment of petroleum installations. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 4, pp. 139-144. https://doi.org/10.18280/mmep.040401
140	Ike C.C.	Flexural Analysis of Kirchhoff plates on Winkler foundations using finite Fourier sine integral transform method	Finite Fourier Sine Transform Method, Kirchhoff Plate, Winkler Foundation, Navier's Double Trigonometric Series Method, Boundary Value Problem.	4, 4, 145-154	10.18280/mmep.040402	Ike C.C. (2017). Flexural Analysis of Kirchhoff plates on Winkler foundations using finite Fourier sine integral transform method. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 4, pp. 145-154. https://doi.org/10.18280/mmep.040402
141	BalaRaju J., Raj M.G., Murthy Ch S.N.	Evaluation of influential measures to control the monetary aspects of load haul dump machine-case study	Machine Failure, Acquisition Value, Operating Price, Renovation Cost, Disposal or Scrap Price, Lifestyles Cycle Cost.	4, 4, 155-161	10.18280/mmep.040403	BalaRaju J., Raj M.G., Murthy Ch S.N. (2017). Evaluation of influential measures to control the monetary aspects of load haul dump machine-case study. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 4, pp. 155-161. https://doi.org/10.18280/mmep.040403
142	Medina Y.C., Fonticella O.M.C., Morales O.F.G.	Design and modulation of piping systems by means of use friction factor in the transition turbulent zone	Explicit Equation, Darcy Friction Factor, Flow in Pipes, Pipe Diameter.	4, 4, 162-167	10.18280/mmep.040404	Medina Y.C., Fonticella O.M.C., Morales O.F.G. (2017). Design and modulation of piping systems by means of use friction factor in the transition turbulent zone. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 4, pp. 162-167. https://doi.org/10.18280/mmep.040404
143	Oni M.O., Yusuf T.S.	Unsteady couette flow in an annulus with combined mode of magnetic field application: A generalization	Transverse Magnetic Field, Radial Magnetic Field, Annulus, Unsteady, Couette Flow.	4, 4, 168-172	10.18280/mmep.040405	Oni M.O., Yusuf T.S. (2017). Unsteady couette flow in an annulus with combined mode of magnetic field application: A generalization. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 4, pp. 168-172. https://doi.org/10.18280/mmep.040405
144	Qu W.X., Xie Y.H., Shen Y., Han J., You M.Y., Zhu T.	Simulation on the effects of various factors on the motion of ultrasonic cavitation bubble	Ultrasonic Cavitation, Cavitation Bubble, Bubble Radius, Ultrasonic Frequency, Ultrasonic Amplitude.	4, 4, 173-178	10.18280/mmep.040406	Qu W.X., Xie Y.H., Shen Y., Han J., You M.Y., Zhu T. (2017). Simulation on the effects of various factors on the motion of ultrasonic cavitation bubble. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 4, pp. 173-178. https://doi.org/10.18280/mmep.040406
145	Wang C.L., Wang Q.Y., Cao Y.P.	Blind source separation of indoor mobile voice sources	Mobile Voice Sources, Reverberation, Blind Source Separation, Natural Gradient, Independent Component Analysis.	4, 4, 179-183	10.18280/mmep.040407	Wang C.L., Wang Q.Y., Cao Y.P. (2017). Blind source separation of indoor mobile voice sources. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 4, pp. 179-183. https://doi.org/10.18280/mmep.040407
146	Sen G.D., Sharma J., Goyal G.R., Singh A.K.	A Multi-objective PSO (MOPSO) algorithm for optimal active power dispatch with pollution control	Optimal Power Dispatch, Swarm Intelligence, Particle Swarm Optimization (PSO), Multi-objective PSO (MOPSO), Pareto-front Technique.	4, 3, 113-119	10.18280/mmep.040301	Sen G.D., Sharma J., Goyal G.R., Singh A.K. (2017). A Multi-objective PSO (MOPSO) algorithm for optimal active power dispatch with pollution control. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 3, pp. 113-119. https://doi.org/10.18280/mmep.040301
147	Gheraout B., Gheraout D., Bouabdallah S., Aïta A.	Two transitions of thermosolutal natural convection in the presence of an external magnetic field	Thermosolutal Natural Convection (TSNC), Magnetic Field (MF), Oscillatory Flows, Onset Flow, Buoyancy Ratio.	4, 3, 120-125	10.18280/mmep.040302	Gheraout B., Gheraout D., Bouabdallah S., Aïta A. (2017). Two transitions of thermosolutal natural convection in the presence of an external magnetic field. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 3, pp. 120-125. https://doi.org/10.18280/mmep.040302
148	Medina Y.C., Khandy N.H., Fonticella O.M.C., Morales O.F.G.	Abstract of heat transfer coefficient modulation in single-phase systems inside pipes	Average Coefficient, Heat Transfer, Model, Regression.	4, 3, 126-131	10.18280/mmep.040303	Medina Y.C., Khandy N.H., Fonticella O.M.C., Morales O.F.G. (2017). Abstract of heat transfer coefficient modulation in single-phase systems inside pipes. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 3, pp. 126-131. https://doi.org/10.18280/mmep.040303
149	Sharma A., Goyal G.R.	Solution of an ELD problem with valve-point effect using artificial intelligence techniques	Valve-point Effect, Cuckoo Search Method (CS), Modified PSO (MPSO).	4, 3, 132-137	10.18280/mmep.040304	Sharma A., Goyal G.R. (2017). Solution of an ELD problem with valve-point effect using artificial intelligence techniques. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 3, pp. 132-137. https://doi.org/10.18280/mmep.040304
150	Sun K., Li Y.P., Roy U.	A PLM-based data analytics approach for improving product development lead time in an engineer-to-order manufacturing firm	CRISP-DM, Engineer-to-order (ETO), Model-based Optimization, Prescriptive Analytics, Product Lifecycle Management (PLM).	4, 2, 69-74	10.18280/mmep.040201	Sun K., Li Y.P., Roy U. (2017). A PLM-based data analytics approach for improving product development lead time in an engineer-to-order manufacturing firm. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 2, pp. 69-74. https://doi.org/10.18280/mmep.040201
151	Pal M., Sarkar G., Barai R.K., Roy T.	Design of different reference model based model reference adaptive controller for inverted model non-minimum phase system	Lyapunov Stability Theory, Model Reference Adaptive Control, Non-Minimum Phase System, Reference Model.	4, 2, 75-79	10.18280/mmep.040202	Pal M., Sarkar G., Barai R.K., Roy T. (2017). Design of different reference model based model reference adaptive controller for inverted model non-minimum phase system. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 2, pp. 75-79. https://doi.org/10.18280/mmep.040202
152	Das A., Deb K., Bajerjee S., Bag R.	A new method for tutorial gap identification towards students modeling	ICT, OBE, Tutorial, Gap, Students Modeling.	4, 2, 80-83	10.18280/mmep.040203	Das A., Deb K., Bajerjee S., Bag R. (2017). A new method for tutorial gap identification towards students modeling. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 2, pp. 80-83. https://doi.org/10.18280/mmep.040203
153	Banerjee S., Ghosh A., Mitra S.K.	A modified mathematical model for lifetime enhancement in wireless sensor network	Relay Nodes, Sleep-mode Nodes, Network Lifetime, Lbera, Pegasis, Short, HDS, Mathematical Models.	4, 2, 84-90	10.18280/mmep.040204	Banerjee S., Ghosh A., Mitra S.K. (2017). A modified mathematical model for lifetime enhancement in wireless sensor network. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 2, pp. 84-90. https://doi.org/10.18280/mmep.040204
154	Dutta P., Kumar A.	Intelligent calibration technique using optimized fuzzy logic controller for ultrasonic flow sensor	Ultrasonic Flow Transducer, Flow Measurement, Sensor Modelling, Fuzzy Logic Controller, Optimization.	4, 2, 91-94	10.18280/mmep.040205	Dutta P., Kumar A. (2017). Intelligent calibration technique using optimized fuzzy logic controller for ultrasonic flow sensor. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 2, pp. 91-94. https://doi.org/10.18280/mmep.040205
155	Sanyal S., Hossain S., Dhar S., Sanyal A.N.	Computer-aided analysis of saturation in synchronous machines	Saturation, Grapho-analytical Technique, Exponential Method, Frolich's Equation, Method of Least Square.	4, 2, 95-99	10.18280/mmep.040206	Sanyal S., Hossain S., Dhar S., Sanyal A.N. (2017). Computer-aided analysis of saturation in synchronous machines. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 2, pp. 95-99. https://doi.org/10.18280/mmep.040206
156	Yin H., Cam L.L., Roy U.	Formation control for multiple unmanned aerial vehicles in constrained space using modified artificial potential field	Formation Control, Collision Avoidance, Artificial Potential Field, UAV.	4, 2, 100-105	10.18280/mmep.040207	Yin H., Cam L.L., Roy U. (2017). Formation control for multiple unmanned aerial vehicles in constrained space using modified artificial potential field. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 2, pp. 100-105. https://doi.org/10.18280/mmep.040207
157	Paul G., Patra P.	Prediction of tangential force and maximum temperature generation at the tool tip using ANFIS model during CNC turning operations for an intricate shape	CNC Turning, Tangential Force, Tool Tip Temperature, L8 Orthogonal Array.	4, 2, 106-112	10.18280/mmep.040208	Paul G., Patra P. (2017). Prediction of tangential force and maximum temperature generation at the tool tip using ANFIS model during CNC turning operations for an intricate shape. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 2, pp. 106-112. https://doi.org/10.18280/mmep.040208
158	Wu M.H.	CUSUM tests for change points in AR(P) models	Change Points, CUSUM Test, Asymptotic Distribution, AR(P) Processes.	4, 2, 113-116	10.18280/mmep.040209	Wu M.H. (2017). CUSUM tests for change points in AR(P) models. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 2, pp. 113-116. https://doi.org/10.18280/mmep.040209
159	Bensaci C.E., Labeled A., Zellouf M., Moummi A.	Numerical study of natural convection in an inclined enclosure: application to flat plate solar collectors	Natural Convection, Solar Air Flat Plate Collector, Inclined Enclosure, Flow Mode Transition, Flow Patterns.	4, 1, 1-6	10.18280/mmep.040101	Bensaci C.E., Labeled A., Zellouf M., Moummi A. (2017). Numerical study of natural convection in an inclined enclosure: application to flat plate solar collectors. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 1, pp. 1-6. https://doi.org/10.18280/mmep.040101
160	Zaoui F.Z., Hanif H.A., Aberahman L.Y., Mustapha M.H., Abdelouahed T., Djamel O.	Free vibration analysis of functionally graded beams using a higher-order shear deformation theory	Analytical Modeling, Beam, Functionally Graded Material, Natural Frequencies, Free Vibration.	4, 1, 7-12	10.18280/mmep.040102	Zaoui F.Z., Hanif H.A., Aberahman L.Y., Mustapha M.H., Abdelouahed T., Djamel O. (2017). Free vibration analysis of functionally graded beams using a higher-order shear deformation theory. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 1, pp. 7-12. https://doi.org/10.18280/mmep.040102
161	Wang J.G., Wang X.R., Ren G.L., Xiang K.	Effect of ambient condition on n-heptane droplet evaporation	Evaporation, Single Droplet, N-Heptane, Ambient Pressure, Flow Intensity.	4, 1, 13-17	10.18280/mmep.040103	Wang J.G., Wang X.R., Ren G.L., Xiang K. (2017). Effect of ambient condition on n-heptane droplet evaporation. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 1, pp. 13-17. https://doi.org/10.18280/mmep.040103

162	Fouad B., Mohamed B.B., Ahmed B., Abdelouahed T., El-abbess A.B.	Static analysis of P-FGM beams resting on the Winkler elastic foundations	P-FGM Beams, Winkler Elastic Foundation, Neutral Surface, Bending, Higher-order Theory.	4, 1, 18-22	10.18280/mmep.040104	Fouad B., Mohamed B.B., Ahmed B., Abdelouahed T., El-abbess A.B. (2017). Static analysis of P-FGM beams resting on the Winkler elastic foundations. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 1, pp. 18-22. https://doi.org/10.18280/mmep.040104
163	Melik B., Iezid M., Goumeidane F., Legouera M.	Structure and mechanical properties of steels for thermochemical treatment	Thermo-chemical Treatment, Mechanical Properties, Steel.	4, 1, 23-25	10.18280/mmep.040105	Melik B., Iezid M., Goumeidane F., Legouera M. (2017). Structure and mechanical properties of steels for thermochemical treatment. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 1, pp. 23-25. https://doi.org/10.18280/mmep.040105
164	Aziz H.A., Aroua M.K., Yusoff R., Abas N.A., Idris Z., Hsasan H.A.	Mathematical modelling using response surface methodology for optimization of the operating conditions for esteramine production aided by solid catalyst	Esteramine, Transesterification, Methyl Palmitate, Heterogeneous Catalyst, Esterquats.	4, 1, 26-32	10.18280/mmep.040106	Aziz H.A., Aroua M.K., Yusoff R., Abas N.A., Idris Z., Hsasan H.A. (2017). Mathematical modelling using response surface methodology for optimization of the operating conditions for esteramine production aided by solid catalyst. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 1, pp. 26-32. https://doi.org/10.18280/mmep.040106
165	Belhadj A., Boukhalfa A., Belalia S.A.	Free vibration modelling of Single-walled Carbon Nanotubes using the Differential Quadrature Method	Free Vibration, Carbon Nanotubes, Natural Frequency, Non-local Elasticity, Differential Quadrature Method, Euler-Bernoulli.	4, 1, 33-37	10.18280/mmep.040107	Belhadj A., Boukhalfa A., Belalia S.A. (2017). Free vibration modelling of Single-walled Carbon Nanotubes using the Differential Quadrature Method. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 1, pp. 33-37. https://doi.org/10.18280/mmep.040107
166	Fedali S., Madani H.	Azeotropic points with relative volatility-prediction and calculation	Equation of State, Mixing Rules, Excess Free Energy, Azeotrope, Relative Volatility.	4, 1, 38-42	10.18280/mmep.040108	Fedali S., Madani H. (2017). Azeotropic points with relative volatility-prediction and calculation. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 1, pp. 38-42. https://doi.org/10.18280/mmep.040108
167	Mourad D., el Hedj O., Rachid L., Ahmed M.	Experimental characterization of the Heat Affected Zone (HAZ) properties of 100Cr6 steel joined by rotary friction welding method	Rotary Friction Welding, HAZ, 100Cr6 Steel, Microstructure, Hardness.	4, 1, 43-47	10.18280/mmep.040109	Mourad D., el Hedj O., Rachid L., Ahmed M. (2017). Experimental characterization of the Heat Affected Zone (HAZ) properties of 100Cr6 steel joined by rotary friction welding method. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 1, pp. 43-47. https://doi.org/10.18280/mmep.040109
168	Chen J.L., Dong D.S., Qiao Z.	Non-circular crane rail theory and parametric design	Clothoid Spiral, Rail Theory, Parametric Design, Adams Simulation.	4, 1, 48-52	10.18280/mmep.040110	Chen J.L., Dong D.S., Qiao Z. (2017). Non-circular crane rail theory and parametric design. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 1, pp. 48-52. https://doi.org/10.18280/mmep.040110
169	Ali B.M., Bouadjera B.B., Chikh E.B.O., Elmegeenni M.	The effect of the plastic instability on the behavior of an amorphous polymere	Amorphous Polymer, Damage, Mechanical Behavior, Modeling.	4, 1, 53-58	10.18280/mmep.040111	Ali B.M., Bouadjera B.B., Chikh E.B.O., Elmegeenni M. (2017). The effect of the plastic instability on the behavior of an amorphous polymere. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 1, pp. 53-58. https://doi.org/10.18280/mmep.040111
170	Houria H.S., Bariza Z., Djamel H., Hocine B.	DMFC water management in presence of heat sources	DMFC, Methanol, Heat Source, Temperature, FORTRAN.	4, 1, 59-62	10.18280/mmep.040112	Houria H.S., Bariza Z., Djamel H., Hocine B. (2017). DMFC water management in presence of heat sources. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 1, pp. 59-62. https://doi.org/10.18280/mmep.040112
171	Liu B.L., Xu X.W.	Optimal reactive power planning considering the adjustment coefficient of generator excitation system	Reactive Power Optimal Planning, Excitation System Adjustment Coefficient, Benders Decomposition.	4, 1, 63-67	10.18280/mmep.040113	Liu B.L., Xu X.W. (2017). Optimal reactive power planning considering the adjustment coefficient of generator excitation system. <i>Mathematical Modelling of Engineering Problems</i> , Vol. 4, No. 1, pp. 63-67. https://doi.org/10.18280/mmep.040113